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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/809,809 03/26/2004 042278 7816 Tetsuya Ikuta 38834 EXAMINER 7590 03/22/2006 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP LE, THAO X 1250 CONNECTICUT AVENUE, NW PAPER NUMBER ART UNIT **SUITE 700** WASHINGTON, DC 20036 2814

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

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Application No.	Applicant(s)	U
10/809,809	IKUTA ET AL.	
Examiner	Art Unit	
Thao X. Le	2814	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 09 March 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: The period for reply expires <u>3</u> months from the mailing date of the final rejection. The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL 2. The Notice of Appeal was filed on . A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below): (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: See Continuation Sheet. (See 37 CFR 1.116 and 41.33(a)). 4. 🔲 The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. X For purposes of appeal, the proposed amendment(s): a) X will not be entered, or b) I will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 9-19. Claim(s) withdrawn from consideration: ____ AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). ___ 13. Other: _

Continuation of 3. NOTE: The newly added limitation "by a deposition method" in claim 15 would change the scope of the claim invention that would require further search and/or consideration.

Continuation of 11. does NOT place the application in condition for allowance because: The enclosed references, Awaji and Takahashi, had been carefully considered along with the Applicant's argument. The Applicants agues that the oxide layer is 1.5 nm or less of the claimed invention equates to the whole film is an interfacial layer, while the SiO2 layer 24 of Kishi would equate to having both of an interfacial and a SiO2 layers. For this reason, the nitrogen atoms of the instant application would nitridized the interfacial film only, while the nitrogen atom of Kishi would nitridized the SiO2, not the interfacial. The Examiner respectfully disagrees because 1) the claim does not including such interfacial layer 2) the evidence is not sufficient to established the oxide layer of the instant application is consisting of interfacial oxide. In the contrary, Awaji discloses the thermal oxide layer includes a thin interface SiO2/Si; thus the thermal oxide of the claimed invention would inherently comprising interfacial and SiO2 layers 3) assuming such interfacial layer exists, the claim language fails to reflect introducing the interfacial layer ONLY. 3) the applicant fails to show the superior properties (marked improvement) of the claimed invention vs. Kishi. In other words, the oxide layer of Kishi is substantially inferior oxide layer.